FIG. 1

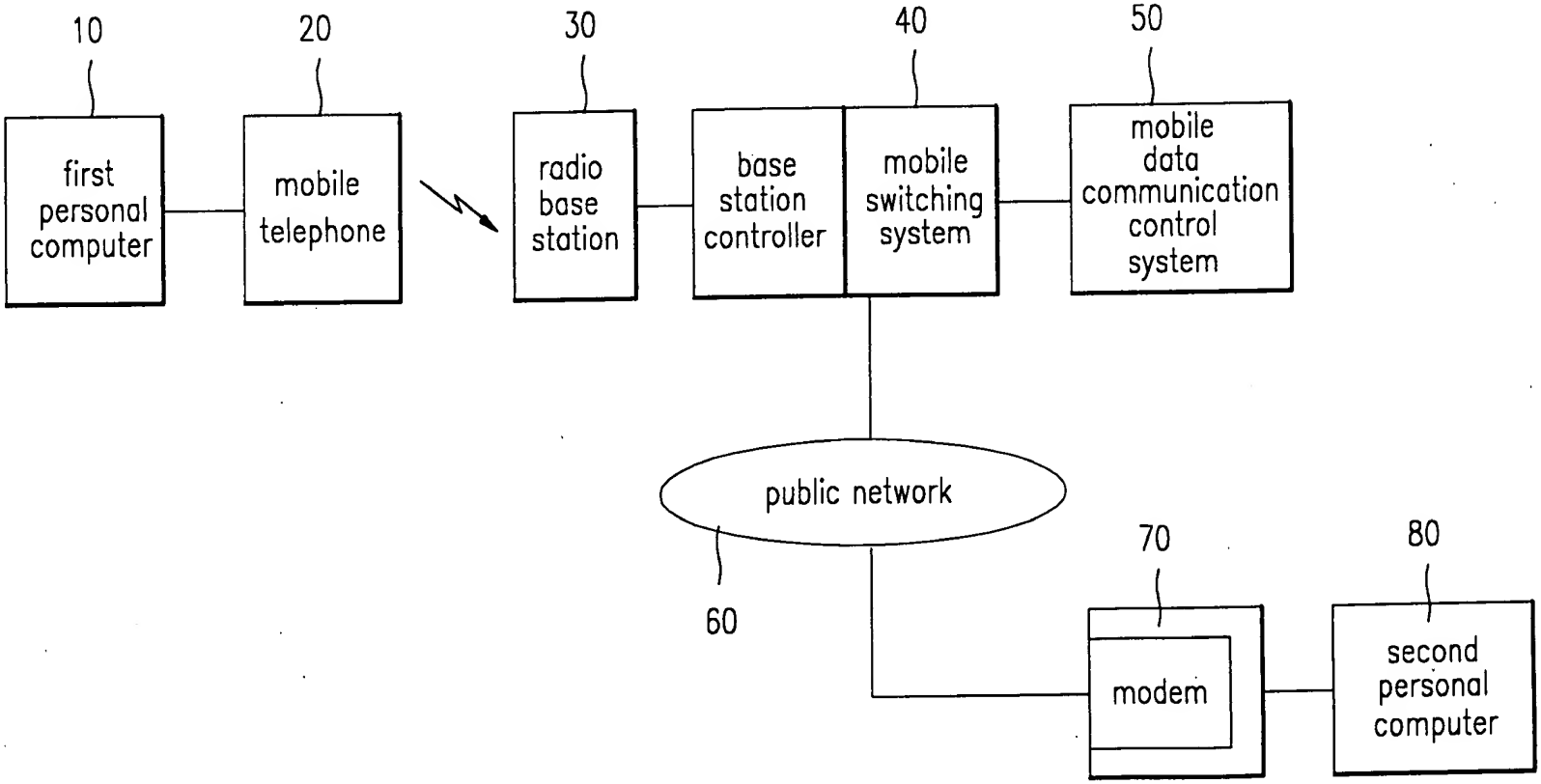
10
20
30
40
50
first personal computer
mobile telephone
radio base station
base station controller
mobile switching system
mobile data communication control system
public network
60
70
80
modem
second personal computer

FIG.2

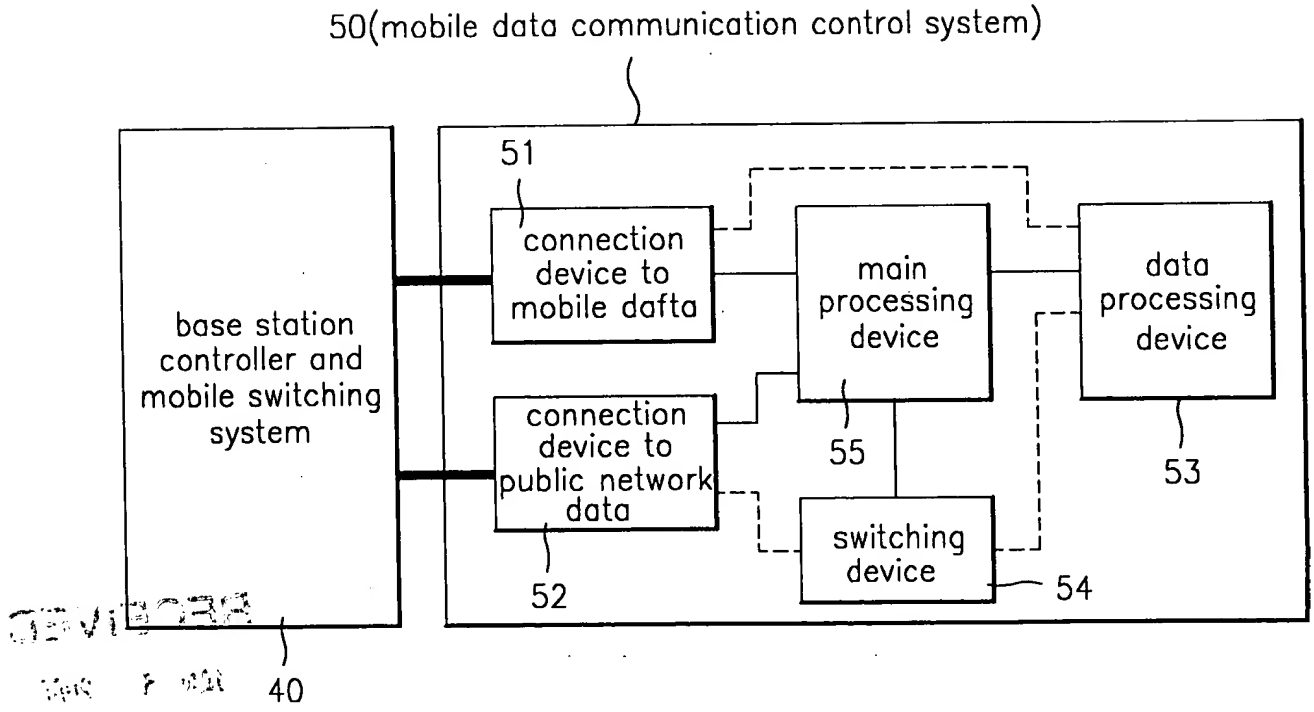
50(mobile data communication control system)
51
connection device to mobile dafta
main processing device
data processing device
base station controller and mobile switching system
connection device to public network data
55
53
switching device
54
52
40

FIG.3

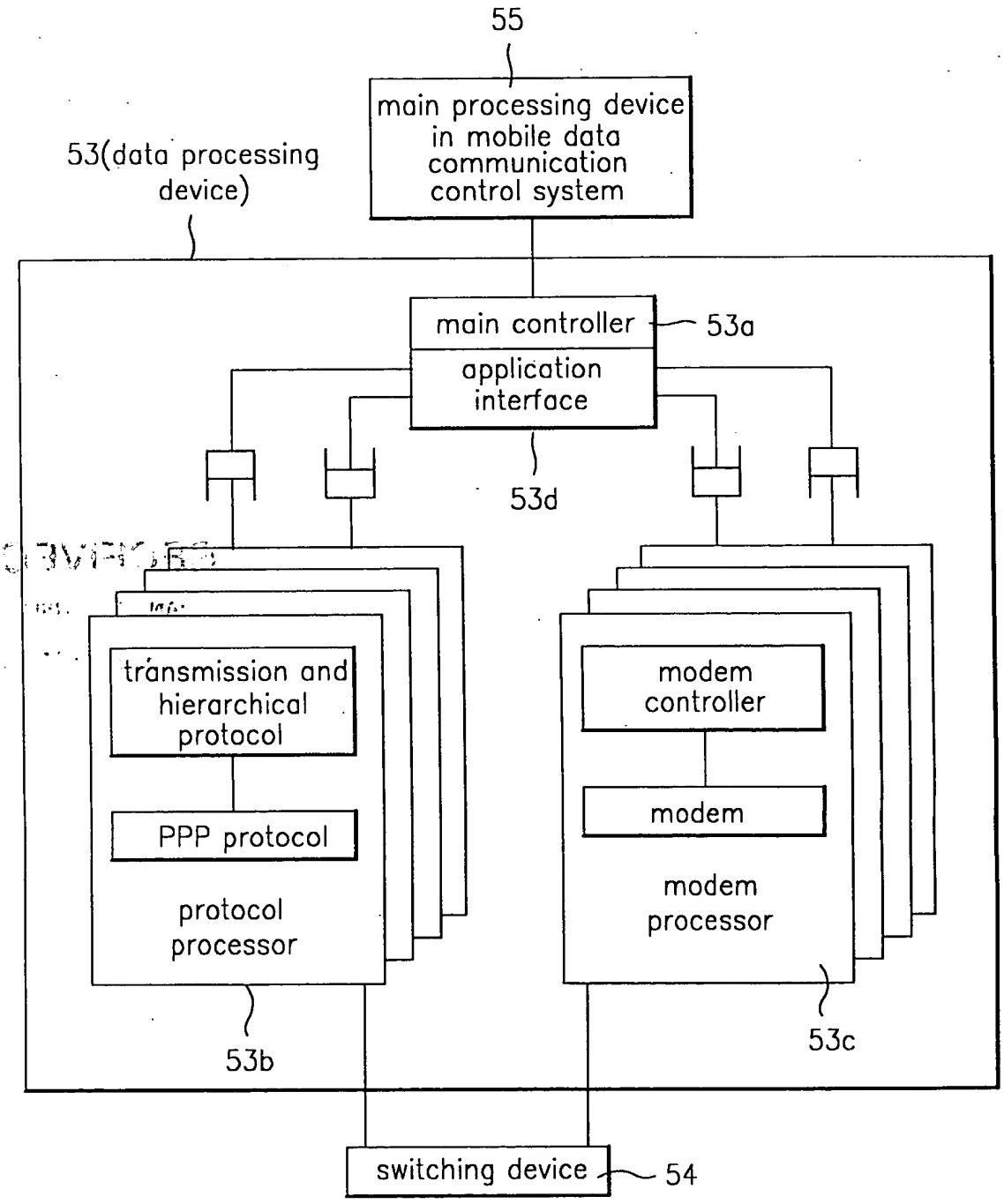
55
main processing device in mobile data communication control system
53(data processing device)
main controller
53a
application interface
53d
transmission and hierarchical protocol
PPP protocol
protocol processor
53b
modem controller
modem
modem processor
53c
switching device
54

FIG.4A

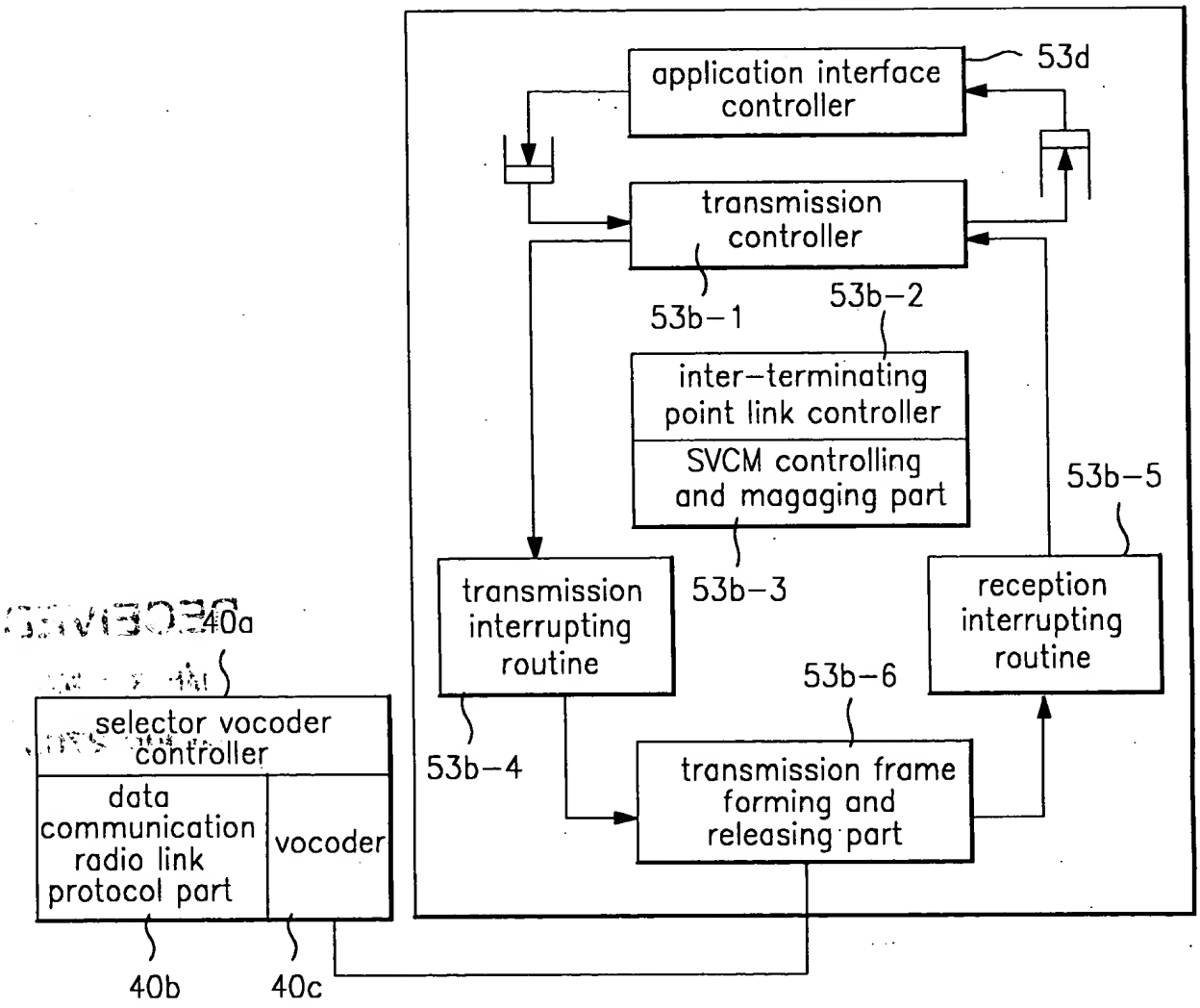
application interface controller
53d
transmission controller
53b-1
53b-2
inter-terminating point link controller
SVCM controlling and magaging part
53b-3
53b-5
transmission interrupting routine
reception interrupting routine
53b-6
53b-4
transmission frame forming and releasing part
40a
selector vocoder controller
data communication radio link protocol part
vocoder
40b
40c

FIG.4B

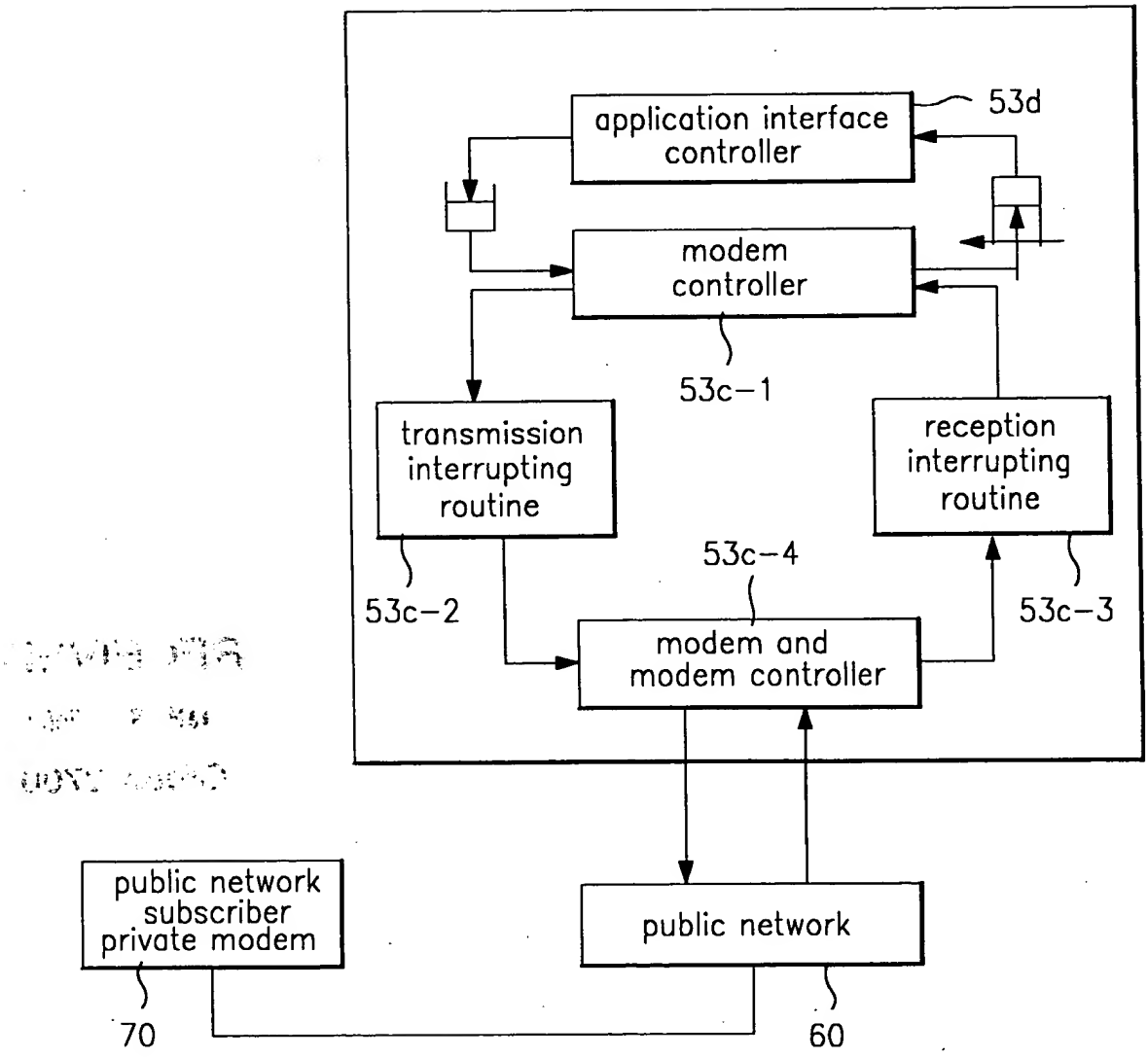
application interface controller
53d
modem controller
53c-1
transmission interrupting routine
reception interrupting routine
53c-4
53c-2
53c-3
modem and modem controller
public network subscriber private modem
public network
70
60

FIG.5A

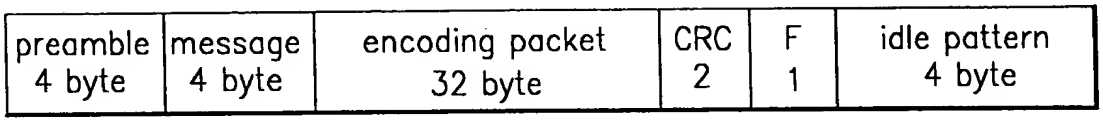

FIG.5B

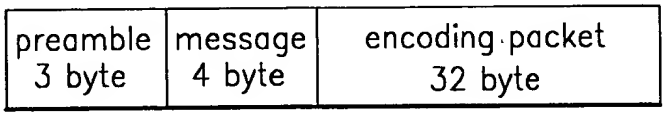
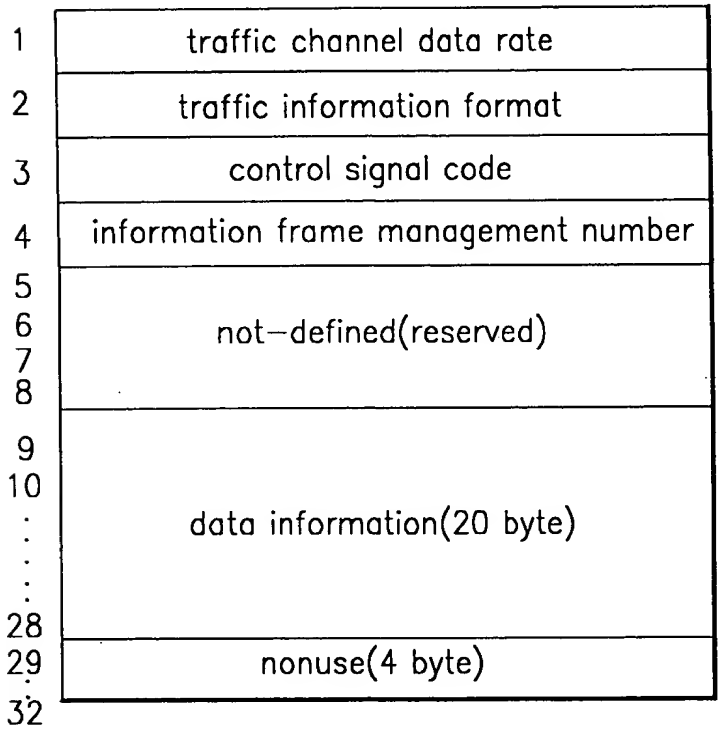
FIG.5C